

roll-up storing means for receiving, in cooperation with an adjacent straight storage tray, the sheet discharged from the sheet conveying device, rolling up said sheet from a leading edge of said sheet, and storing said sheet in a form of a roll; and

connecting means for displaceably connecting said roll-up storing means to the sheet conveying device;

wherein said roll-up storing means is connected to the sheet conveying device such that when said roll-up storing means is displaced, a trailing edge of the sheet rolled up in said roll-up storing means is spaced from said sheet conveying device.

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2. (amended): A sheet conveying device comprising:

roll-up storing means for rolling up, in cooperation with an adjacent straight storage tray, a sheet being discharged from said sheet conveying device from a leading edge of said sheet and storing said sheet in a form of a roll; and

spacing means for spacing a trailing edge of the sheet rolled up in said storing means from a body of said sheet conveying device;

wherein the sheet is picked up from said roll-up storing means with the trailing edge of said sheet spaced from said body.

3. (amended): A device as claimed in claim 2, wherein said roll-up storing means has an inner periphery having an arcuate cross-section in a direction of sheet conveyance, an inlet extending in a widthwise direction of the sheet, and opposite open ends in said widthwise direction.

sub B.7
12. (amended): A sheet conveying device comprising:

roll-up storing means for rolling up, in cooperation with an adjacent straight storage tray, a sheet being discharged from said sheet conveying device from a leading edge of said sheet and storing said sheet in a form of a roll;

discharging means for discharging the sheet to an outside of said sheet conveying device; and

speed control means for controlling a speed at which said discharging means conveys the sheet;

wherein when the sheet is discharged toward said roll-up storing means, said speed control means increases the speed to thereby space a trailing edge of said sheet rolled up in said roll-up storing means from said discharging means.

13. (amended): A device as claimed in claim 12, wherein said roll-up storing means has an inner periphery having an arcuate cross-section in a direction of sheet conveyance, an inlet extending in a widthwise direction of the sheet, and opposite open ends in said widthwise direction.

14. (amended): A sheet conveying device comprising:

roll-up storing means for rolling up, in cooperation with an adjacent straight storage tray, a sheet being discharged from said sheet conveying device from a leading edge of said sheet and storing said sheet in a form of a roll;

discharging means for discharging the sheet to an outside of said sheet conveying device; and

spacing means for spacing said roll-up storing means from said discharging means to thereby space a trailing edge of the sheet rolled up in said roll-up storing means from said discharging means.

~~B₁ A₂~~
15. (amended): A device as claimed in claim 14, wherein said roll-up storing means has an inner periphery having an arcuate cross-section in a direction of sheet conveyance, an inlet extending in a widthwise direction of the sheet, and opposite open ends in said widthwise direction.

16. (amended): A sheet conveying device comprising:
discharging means for discharging a sheet to an outside of said sheet conveying device; and
roll-up storing means for rolling up, in cooperation with an adjacent straight storage tray, the sheet at an outside of said sheet conveying device and storing said sheet in a form of a roll;
wherein said roll-up storing means is movable between a roll-up position for rolling up the sheet and a pick-up position for allowing a person to pick up said sheet at an operating position.

~~Sub B₁ 7 A₃~~
33 (amended): A sheet conveying device for discharging a sheet inserted into a front of said sheet conveying device via discharging means positioned at a rear of said sheet conveying device, said sheet conveying device comprising:
straight storing means protruding to the rear of said sheet conveying device for storing the sheet driven out of said discharging means in a straight position; and

~~A₃~~
~~B₁~~
roll-up storing means rotatable about a shaft in an upper portion of said sheet conveying device between a roll-up position, where said roll-up storing means intersects said straight storing means for cooperating with the straight storing means in rolling up the sheet, and a pick-up position above said sheet conveying device;

wherein when the sheet is to be stored in said straight storing means, said roll-up storing means is rotated about said shaft to said pick-up position to thereby unblock a conveyance path, which includes said straight storing means.

~~Sub B₁~~
~~A₄~~
41. (amended): A device as claimed in claim 33, wherein said roll-up storing means has an inner periphery having an arcuate cross-section in a direction of sheet conveyance, an inlet extending in a widthwise direction of the sheet, and opposite open ends in said widthwise direction.

42. (amended): A sheet conveying device made up of an upper unit and a lower unit openably connected to each other, said sheet conveying device comprising:

straight storing means for storing a sheet discharged at an outside of said lower unit;

roll-up storing means rotatably supported by said upper unit for cooperating with the straight storing means in selectively rolling up, at a position where said roll-up storing means intersects said straight storing means, the sheet entered said straight storing means and an inner periphery of said roll-up storing means; and

intersection restricting means included in said straight storing means for restricting intersection of said straight storing means with said roll-up storing means;

wherein said roll-up storing means slides on said intersection restricting means in interlocked relation to opening of said upper unit away from said lower unit to be thereby restricted intersection thereof with said straight storing means.

~~43. (amended): A device as claimed in claim 42, wherein said roll-up storing means has an inner periphery having an arcuate cross-section in a direction of sheet conveyance, an inlet extending in a widthwise direction of the sheet, and opposite open ends in said widthwise direction.~~

~~51. (amended): In a sheet conveying device for conveying a sheet having an image surface to a reading device and discharging said sheet having been read by said reading device, roll-up storing means for cooperating with an adjacent straight storage device to roll up said sheet discharged with said image surface being positioned inside to thereby store said sheet in a form of a roll.~~

~~52. (amended): A device as claimed in claim 51, wherein said roll-up storing means has an inner periphery having an arcuate cross-section in a direction of sheet conveyance, an inlet extending in a widthwise direction of the sheet, and opposite open ends in said widthwise direction of said sheet.~~

~~54. (amended): In an image reading device with a sheet conveying device mounted thereon, said sheet conveying device comprises:~~

roll-up storing means for receiving, in cooperation with an adjacent straight storage tray, the sheet discharged from the sheet conveying device, rolling up said sheet from a leading edge of said sheet, and storing said sheet in a form of a roll; and

connecting means for displaceably connecting said roll-up storing means to the sheet conveying device;

wherein said roll-up storing means is connected to the sheet conveying device such that when said roll-up storing means is displaced, a trailing edge of the sheet rolled up in said roll-up storing means is spaced from said sheet conveying device.

55. (amended): In an image reading device with a sheet conveying device mounted thereon, said sheet conveying device comprises:

roll-up storing means for rolling up, in cooperation with an adjacent straight storage tray, a sheet being discharged from said sheet conveying device from a leading edge of said sheet and storing said sheet in a form of a roll; and

spacing means for spacing a trailing edge of the sheet rolled up in said storing means from a body of said sheet conveying device

wherein the sheet is picked up from said roll-up storing means with the trailing edge of said sheet spaced from said body.

58. (amended): In an image reading device with a sheet conveying device mounted thereon, said sheet conveying device comprises:

roll-up storing means for rolling up, in cooperation with an adjacent straight storage tray, a sheet being discharged from said sheet conveying device from a leading edge of said sheet and storing said sheet in a form of a roll;

discharging means for discharging the sheet to an outside of said sheet conveying device; and

speed control means for controlling a speed at which said discharging means conveys the sheet;

wherein when the sheet is discharged toward said roll-up storing means, said speed control means increases the speed to thereby space a trailing edge of said sheet rolled up in said roll-up storing means from said discharging means.

59. (amended): In an image reading device with a sheet conveying device mounted thereon, said sheet conveying device comprises:

roll-up storing means for rolling up, in cooperation with an adjacent straight storage tray, a sheet being discharged from said sheet conveying device from a leading edge of said sheet and storing said sheet in a form of a roll;

discharging means for discharging the sheet to an outside of said sheet conveying device; and

spacing means for spacing said roll-up storing means from said discharging means to thereby space a trailing edge of the sheet rolled up in said roll-up storing means from said discharging means.

60. (amended): In an image reading device with a sheet conveying device mounted thereon, said sheet conveying device comprises:

discharging means for discharging a sheet to an outside of said sheet conveying device; and

~~roll-up storing means for rolling up, in cooperation with an adjacent straight storage tray, the sheet at an outside of said sheet conveying device and storing said sheet in a form of a roll;~~

~~wherein said roll-up storing means is movable between a roll-up position for rolling up the sheet and a pick-up position for allowing a person to pick up said sheet at an operating position.~~

Sub B.7
62. (amended): In an image reading device with a sheet conveying device mounted thereon, said sheet conveying device comprises:

~~straight storing means for storing a sheet discharged at an outside of said lower unit;~~

~~roll-up storing means rotatably supported by said upper unit for cooperating with said straight storing means in selectively rolling up, at a position where said roll-up storing means intersects said straight storing means, the sheet entered said straight storing means with an inner periphery of said roll-up storing means; and~~

~~intersection restricting means included in said straight storing means for restricting intersection of said straight storing means with said roll-up storing means;~~

~~wherein said roll-up storing means slides on said intersection restricting means in interlocked relation to opening of said upper unit away from said lower unit to be thereby restricted intersection thereof with said straight storing means.~~

Sub B.7
64. (amended): In an image reading device with a sheet conveying device mounted thereon, said sheet conveying device comprises:

~~roll-up storing means for cooperating with an adjacent straight storage tray to roll up said sheet discharged with said image surface being positioned inside to thereby store said sheet in a form of a roll.~~

66. (amended): In an image reading device with a sheet conveying device mounted thereon, said sheet conveying device comprises:

roll-up storing means for receiving, in cooperation with an adjacent straight storage tray, the sheet discharged from the sheet conveying device, rolling up said sheet from a leading edge of said sheet, and storing said sheet in a form of a roll; and

connecting means for displaceably connecting said roll-up storing means to the sheet conveying device; wherein said roll-up storing means is connected to the sheet conveying device such that when said roll-up storing means is displaced, a trailing edge of the sheet rolled up in said roll-up storing means is spaced from said sheet conveying device.

67. (amended): An image reading device including image reading means for reading an image surface of a sheet from above said sheet, said image reading device comprising:

discharging means for discharging the sheet having been read face up; and

roll-up storing means cooperative with an adjacent straight storage tray in rolling up the sheet discharged by said discharging means with the image surface being positioned inside and storing said sheet in a form of a roll.

68. (amended): A sheet storage to be mounted to a sheet conveying device for conveying and discharging a sheet, said sheet storage comprising:

a roll-up storage configured to receive, in cooperation with an adjacent straight storage tray, the sheet discharged from the sheet conveying device, roll up said sheet from a leading edge of said sheet, and store said sheet in a form of a roll; and

a connecting member configured to displaceably connect said roll-up storage to the sheet conveying device;

wherein said roll-up storage is connected to the sheet conveying device such that when said roll-up storage is displaced, a trailing edge of the sheet rolled up in said roll-up storage is spaced from said sheet conveying device.

69. (amended): A sheet conveying device comprising:

a roll-up storage configured to roll up a sheet being discharged from said sheet conveying device, in cooperation with an adjacent straight storage tray, from a leading edge of said sheet and store said sheet in a form of a roll; and

a spacing member configured to space a trailing edge of the sheet rolled up in said roll-up storage from a body of said, sheet conveying device;

wherein the sheet is picked up from said roll-up storage with the trailing edge of said sheet spaced from said body.

70. (amended): A device as claimed in claim 69, wherein said roll-up storage has an inner periphery having an arcuate cross-section in a direction of sheet conveyance, an inlet extending in a widthwise direction of the sheet, and opposite open ends in said widthwise direction.

79. (amended): A sheet conveying device comprising:

~~a roll-up storage configured to roll up, in cooperation with an adjacent straight storage tray, a sheet being discharged from said sheet conveying device from a leading edge of said sheet and store said sheet in a form of a roll;~~

~~a discharging member configured to discharge the sheet to an outside of said sheet conveying device; and~~

~~a speed controller constructed to control a speed at which the discharging member conveys the sheet;~~

~~wherein when the sheet is discharged toward said roll-up storage, said speed controller increases the speed to thereby space a trailing edge of said sheet rolled up in said roll-up storage from said discharging member.~~

Sub B.1.7
81. (amended): A sheet conveying device comprising:
~~a roll-up storage configured to roll up, in cooperation with an adjacent straight storage tray, a sheet being discharged from said sheet conveying device from a leading edge of said sheet and store said sheet in a form of a roll;~~

~~a discharging member configured to discharge the sheet to an outside of said sheet conveying device; and~~

~~a spacing member for spacing said roll-up storage from said discharging member to thereby space a trailing edge of the sheet rolled up in said roll-up storage from said discharging member.~~

82. (amended): A device as claimed in claim 81, wherein said roll-up storage has an inner periphery having an arcuate cross-section in a direction of sheet conveyance, an inlet

extending in a widthwise direction of the sheet, and opposite open ends in said widthwise direction.

83. (amended): A sheet conveying device comprising:

A12
B1 a discharging member configured to discharge a sheet to an outside of said sheet conveying device; and

a roll-up storage configured to roll up, in cooperation with an adjacent straight storage tray, the sheet at an outside of said sheet conveying device and store said sheet in a form of a roll;

wherein said roll-up storage is movable between a roll-up position for rolling up the sheet and a pick-up position for allowing a person to pick up said sheet at an operating position.

Sub B.17
A13 99. (amended): A device as claimed in claim 83, wherein said roll-up storage has an inner periphery having an arcuate cross-section in a direction of sheet conveyance, an inlet extending in a widthwise direction of the sheet, and opposite open ends in said widthwise direction.

100. (amended): A sheet conveying device for discharging a sheet inserted into a front of said sheet conveying device via a discharging member positioned at a rear of said sheet conveying device, said sheet conveying device comprising:

a straight storage protruding to the rear of said sheet conveying device for storing the sheet driven out of said discharging member in a straight position; and

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a roll-up storage rotatable about a shaft in an upper portion of said sheet conveying device between a roll-up position, where said roll-up storage intersects said straight storage and cooperates with the straight storage for rolling up the sheet, and a pick-up position above said sheet conveying device;

wherein when the sheet is to be stored in said straight storage, said roll-up storage is rotated about said shaft to said pick-up position to thereby unblock a conveyance path, which includes said straight storage.

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108. (amended): A device as claimed in claim 100, wherein said roll-up storage has an inner periphery having an arcuate cross-section in a direction of sheet conveyance, an inlet extending in a widthwise direction of the sheet, and opposite open ends in said widthwise direction.

109. (amended): A sheet conveying device made up of an upper unit and a lower unit openably connected to each other, said sheet conveying device comprising:

a straight storage configured to store a sheet discharged at an outside of said lower unit;

a roll-up storage rotatably supported by said upper unit for cooperating with the straight storage in selectively rolling up, at a position where said roll-up storage intersects said straight storage, the sheet entered said straight storage and an inner periphery of said roll-up storage; and

an intersection restricting member included in said straight storage for restricting intersection of said straight storage with said roll-up storage;

wherein said roll-up storage slides on said intersection restricting member in interlocked relation to opening of said upper unit away from said lower unit to be thereby restricted in intersection thereof with said straight storage.

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B, 110. (amended): A device as claimed in claim 109, wherein said roll-up storage has an inner periphery having an arcuate cross-section in a direction of sheet conveyance, an inlet extending in a widthwise direction of the sheet, and opposite open ends in said widthwise direction.

111. (amended): A sheet-conveying device comprising:
a roll-up storage configured to cooperate with an adjacent straight storage device to roll up a sheet discharged in a form of a roll to thereby store said roll;
a width restricting member configured to restrict, when said roll-up storage rolls up the sheet, said sheet in a widthwise direction to thereby prevent said sheet from twisting; and
a spacing member configured to space a trailing edge of the sheet rolled up in said roll-up storage from a body of said sheet conveying device.

Sub B.7
A 115 118. (amended): In a sheet conveying device for conveying a sheet having an image surface to a reading device and discharging said sheet having been read by said reading device, a roll-up storage cooperates with an adjacent straight storage tray to roll up said sheet discharged with said image surface being positioned inside to thereby store said sheet in a form of a roll.

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122. (amended): In an image reading device with a sheet conveying device mounted thereon, said sheet conveying device comprises:

~~AK~~ a roll-up storage configured to cooperate with an adjacent straight storage tray to roll up a sheet being discharged from said sheet conveying device from a leading edge of said sheet and storing said sheet in a form of a roll; and

a spacing member configured to space a trailing edge of the sheet rolled up in said storage from a body of said sheet conveying device;

wherein the sheet is picked up from said roll-up storage with the trailing edge of said sheet spaced from said body.

Sub B.7

125. (amended): In an image reading device with a sheet conveying device mounted thereon, said sheet conveying device comprises:

~~AK~~ a roll-up storage configured to cooperate with an adjacent straight storage tray roll up a sheet being discharged from said sheet conveying device from a leading edge of said sheet and store said sheet in a form of a roll;

a discharging member for discharging the sheet to an outside of said sheet conveying device; and

a speed controller constructed to control a speed at which said discharging member conveys the sheet;

wherein when the sheet is discharged toward said roll-up storage, said speed controller increases the speed to thereby space a trailing edge of said sheet rolled up in said roll-up storage from said discharging member.

126. (amended): In an image reading device with a sheet conveying device mounted thereon, said sheet conveying device comprises:

roll-up storage configured to cooperate with an adjacent straight storage tray roll up a sheet being discharged from said sheet conveying device from a leading edge of said sheet and store said sheet in a form of a roll;

a discharging member configured to discharge the sheet to an outside of said sheet conveying device; and

a spacing member configured to space said roll-up storage from said discharging member to thereby space a trailing edge of the sheet rolled up in said roll-up storage from said discharging member.

127. (amended): In an image reading device with a sheet conveying device mounted thereon, said sheet conveying device comprises:

a discharging member configured to discharge a sheet to an outside of said sheet conveying device; and

a roll-up storage configured to cooperate with an adjacent straight storage tray roll up the sheet at an outside of said sheet conveying device and store said sheet in a form of a roll;

wherein said roll-up storage is movable between a roll-up position for rolling up the sheet and a pick-up position for allowing a person to pick up said sheet at operating position.

128. (original): In an image reading device with a sheet conveying device mounted thereon, said sheet conveying device comprises:

a straight storage protruding to the rear of said sheet conveying device and configured to store the sheet driven out of said discharging member in a straight position; and

a roll-up storage configured to be rotatable about a shaft in an upper portion of said sheet conveying device between a roll-up position, where said roll-up storage intersects said straight storage for rolling up the sheet, and a pick-up position above said sheet conveying device;

wherein when the sheet is to be stored in said straight storage, said roll-up storage is rotated about said shaft to said pick-up position to thereby unblock a conveyance path, which includes said straight storage.

129. (amended): In an image reading device with a sheet conveying device mounted thereon, said sheet conveying device comprises:

a straight storage configured to store a sheet discharged at an outside of said lower unit;

a roll-up storage rotatably supported by said upper unit and configured to cooperate with said straight storage tray to selectively roll up, at a position where said roll-up storage intersects said straight storage, the sheet entered said straight storage with an inner periphery of said roll-up storage; and

an intersection restricting member included in said straight storage and configured to restrict intersection of said straight storage with said roll-up storage;

wherein said roll-up storage slides on said intersection restricting member in interlocked, relation to opening of said upper unit away from said lower unit to be thereby restricted in intersection thereof with said straight storage.

Sub B.7
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131. (amended): In an image reading device with a sheet conveying device mounted thereon, said sheet conveying device comprises:

a roll-up storage configured to cooperate with an adjacent straight storage tray to roll up said sheet discharged with said image surface being positioned inside to thereby store said sheet in a form of a roll.

Sub B.7
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133. (amended): In an image reading device with a sheet conveying device mounted thereon, said sheet conveying device comprises:

a roll-up storage configured to cooperate with an adjacent straight storage tray to receive the sheet discharged from the sheet conveying device, roll up said sheet from a leading edge of said sheet, and store said sheet in a form of a roll; and

a connecting member configured to displaceably connect said roll-up storage to the sheet conveying device;

wherein said roll-up storage is connected to the sheet conveying device such that when said roll-up storage is displaced, a trailing edge of the sheet rolled up in said roll-up storage is spaced from said sheet conveying device.

134. (amended): An image reading device including an image reading device for reading an image surface of a sheet from above said sheet, said image reading device comprising:

a discharging member configured to discharge the sheet having been read face up; and